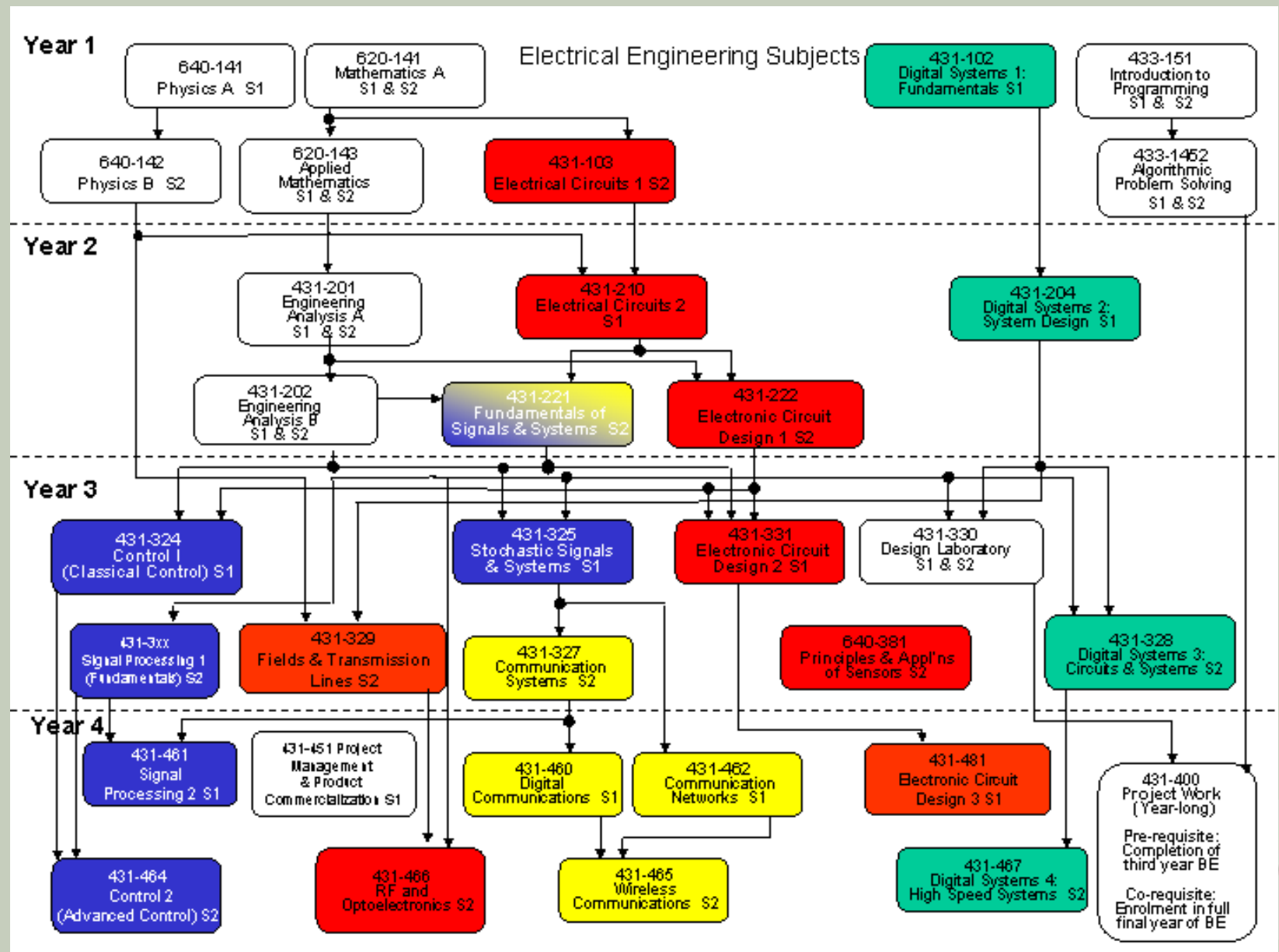


Road and Trail Inventory

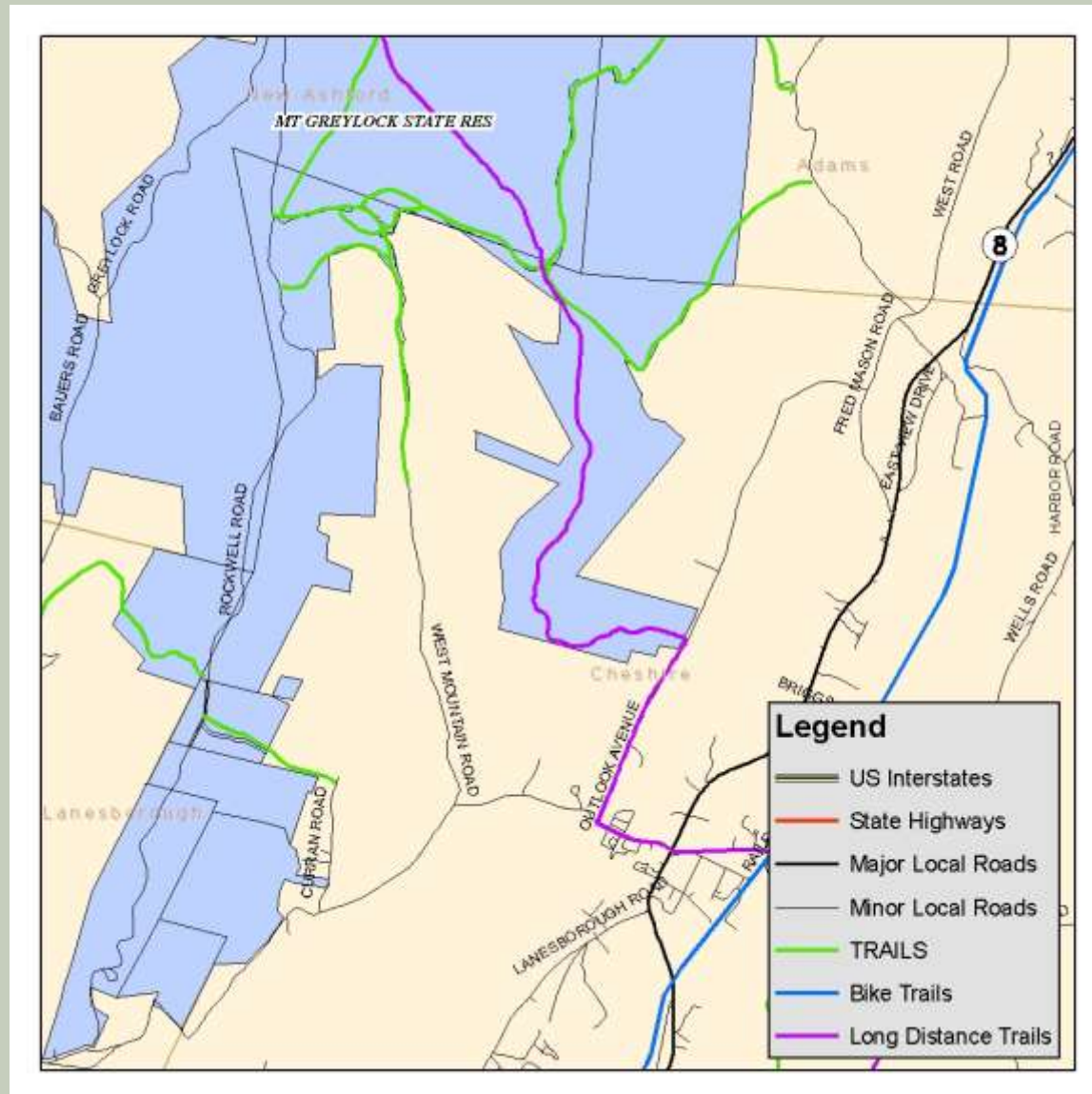
Goal: map all of the legal and illegal existing roads and trails in and leading onto all DCR State Parks and Recreation properties in Massachusetts



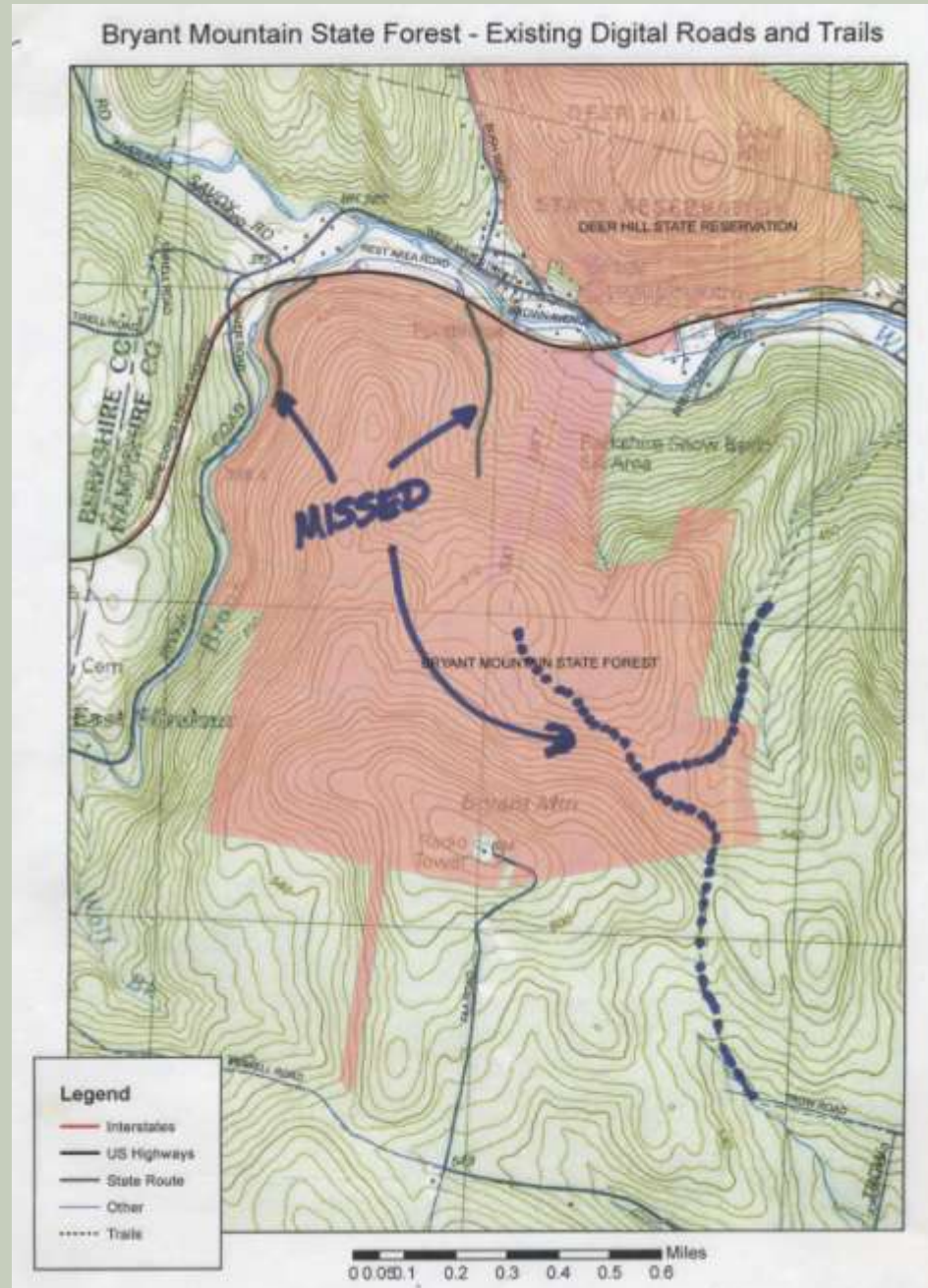
Simple Twelve Step Approach



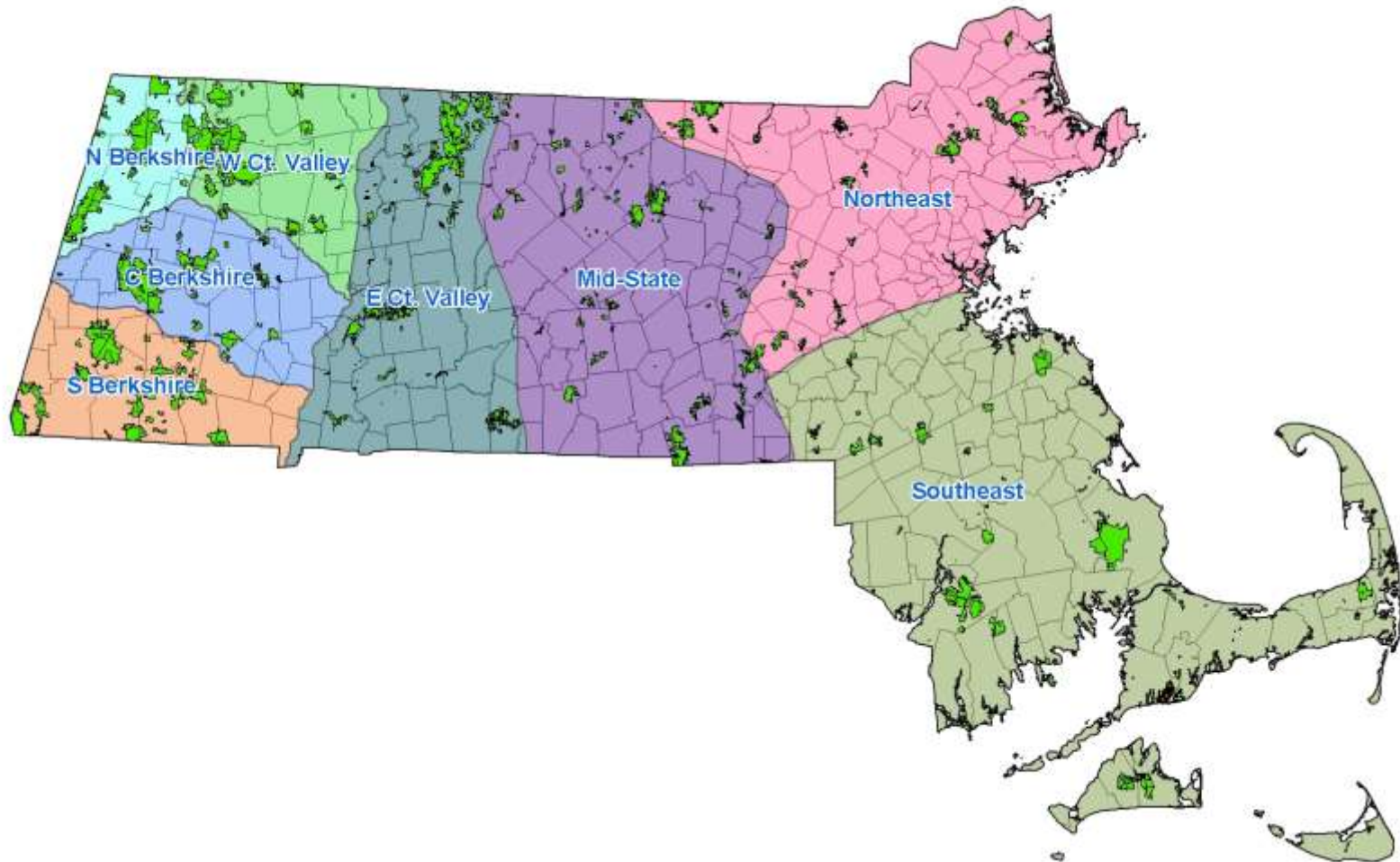
DCR assembles as much digital road and trail data available



Meet with DCR staff to identify other non-digital roads and trails



Contract with consultants in each of the 8 Management Forestry Districts to GPS roads and trails



Consultant uses a high quality GPS to capture all road, trail and point data (greater than 2 meter accuracy)



Road and Trail **Line** Data Collected

Roads/Trails (5 options):

- Trails
- Forest Road/Trail
- Administrative Road
- Public Road
- Other

Attributes Collected:

- | | |
|------------------|---|
| ■ Surface | Natural, Asphalt, Concrete, etc. |
| ■ Width | 0-3', 3-5', 5-10', 10-15', 15-20', 20'+ |
| ■ Condition | Good, Fair, Poor |
| ■ Vehicle access | None, Car, 2WD, 4WD, ORV |
| ■ Trail marking | None, Good, Fair, Poor |





DCR Trail/Road

Trail/Road Info Date

Type:

☐ Sus

Comments:

Surface:

Width:

Condition:

Vehicle Access:

Trail Marking:

OK Cancel

DCR Trail/Road

Trail/Road Info Date

Type: Trail

☐ Suspected illegal trail

Comments:

Surface:

Width:

Condition:

Vehicle Access:

Trail Marking:

OK Cancel

DCR Trail/Road

Trail/Road Info Date

Type: Forest Road/Trail

☐ Suspected illegal trail

Comments:

Surface:

Width:

Condition:

Vehicle Access:

Trail Marking:

OK Cancel

DCR Trail/Road

Trail/Road Info Date

Type: Administrative Road

☐ Suspected illegal trail

Comments:

Surface:

Width:

Condition:

Vehicle Access:

Trail Marking:

OK Cancel

DCR Trail/Road

Trail/Road Info Date

Type: Public Road

☐ Suspected illegal trail

Comments:

Surface:

Width:

Condition:

Vehicle Access:

Trail Marking:

OK Cancel

DCR Trail/Road

Trail/Road Info Date

Type: Other

☐ Suspected illegal trail

Comments:

Surface:

Width:

Condition:

Vehicle Access:

Trail Marking:

OK Cancel





Paved public road



Forest road/trail



Trail



Other (power line)



A trail in REALLY poor condition!

Road and Trail **Point** Data Collected

Point Features (34 options):

- | | | |
|-------------------------|-----------------------|------------------------|
| ■ Intersection | Trailhead | Dead End |
| ■ Parking Area | Gate | Road Bridge |
| ■ Road Culvert | Road Drainage Dip | Road Ford |
| ■ Road Damage | Road Landing Entrance | Road Sign |
| ■ Road Turn Out | Road Turn Around | Water Hole |
| ■ Trail Sign/Kiosk | Trail Structure | Trail Damage |
| ■ Trail Stream Crossing | ROW Crossing | Stone Wall Crossing |
| ■ DCR Bound. Crossing | Building | Shelter |
| ■ Campsite | Picnic Table/Area | Bench(es) |
| ■ Vista | Recreation Site | Historic/Cultural Site |
| ■ Noteworthy Feature | Encroachment | Boundary Corner |
| ■ Other | | |

DCR Trail/Road Point

Type: **Intersection**

FILL OUT THE FIELDS BELOW

Comments:

How many routes meet at this point?

One
Two
Three
Four
Five
Six +

Signage: Int #:

OK Cancel

DCR Trail/Road Point

Type: **Trailhead**

FILL OUT THE FIELDS BELOW

Comments:

How many routes meet at this point?

One
Two
Three
Four
Five
Six +

Signage: Int #:

OK Cancel

DCR Trail/Road Point

Type: **Dead End**

ENTER COMMENTS IF NECESSARY

Comments:

OK Cancel

DCR Trail/Road Point

Type: **Parking Area**

FILL OUT THE FIELDS ON THE NEXT TAB

Comments:

OK

DCR Trail/Road Point

Type: **PARKING AREA**

Capacity (cars): 0

Surface:

Condition: Good
Fair
Poor

Approx. Size: (L'xW', feet)

Cancel

DCR Trail/Road Point

Type: **Gate**

FILL OUT THE FIELDS ON THE NEXT TAB

Comments:

DCR Trail/Road Point

GATE Gate Number:

Ownership:

☐ Red reflective tape in good condition

☒ Gate effectively blocks vehicles

Type:

Posts:

Config.:

Condition:

Height (to nearest 1/2 foot): 0

Width (to nearest foot): 0

OK Cancel

DCR Trail/Road Point

Type: **Road Bridge**

FILL OUT THE FIELDS ON THE NEXT TAB

Comments:

DCR Trail/Road Point

ROAD BRIDGE (tab 1 of 2) >

Ownership:

Span (to nearest foot): 0

Deck mater.:

Deck Width (inches): 0

Deck Length (feet): 0

Deck Condition:

Opening Width (feet): 0

Opening Height (feet): 0

CONTINUE TO NEXT TAB >

OK Cancel

DCR Trail/Road Point

< ROAD BRIDGE (tab 2 of 2)

Stringer mater.:

Stringer Condition:

Number of Stringers: 0

Stringer Size (H"xW"xL"):

H Rating:

Abutment mater.:

Abutment Condition:

Year Installed:

Feature crossed:

OK Cancel





COMMONWEALTH
OF
MASSACHUSETTS
STATE FOREST
BOUNDARY







Encroachment example – BMX jumps in RSP



Recreation site, signage, building, kiosk, picnic table/area

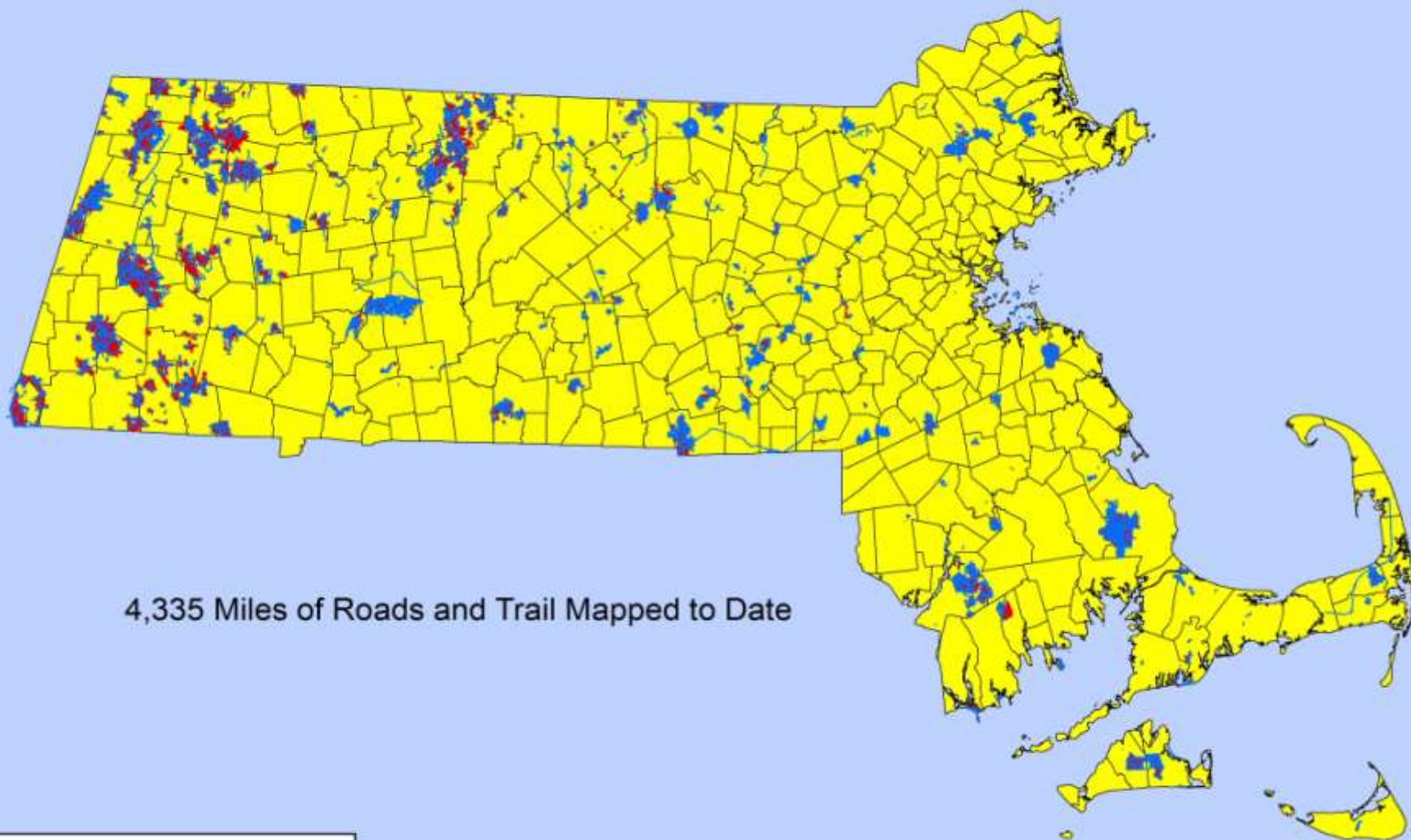


DCR field checks any unresolved issues and completes work started by the team of consultants



Meet again with DCR staff to catch any errors of omission, make decisions of legal vs. illegal, and do additional field work if necessary



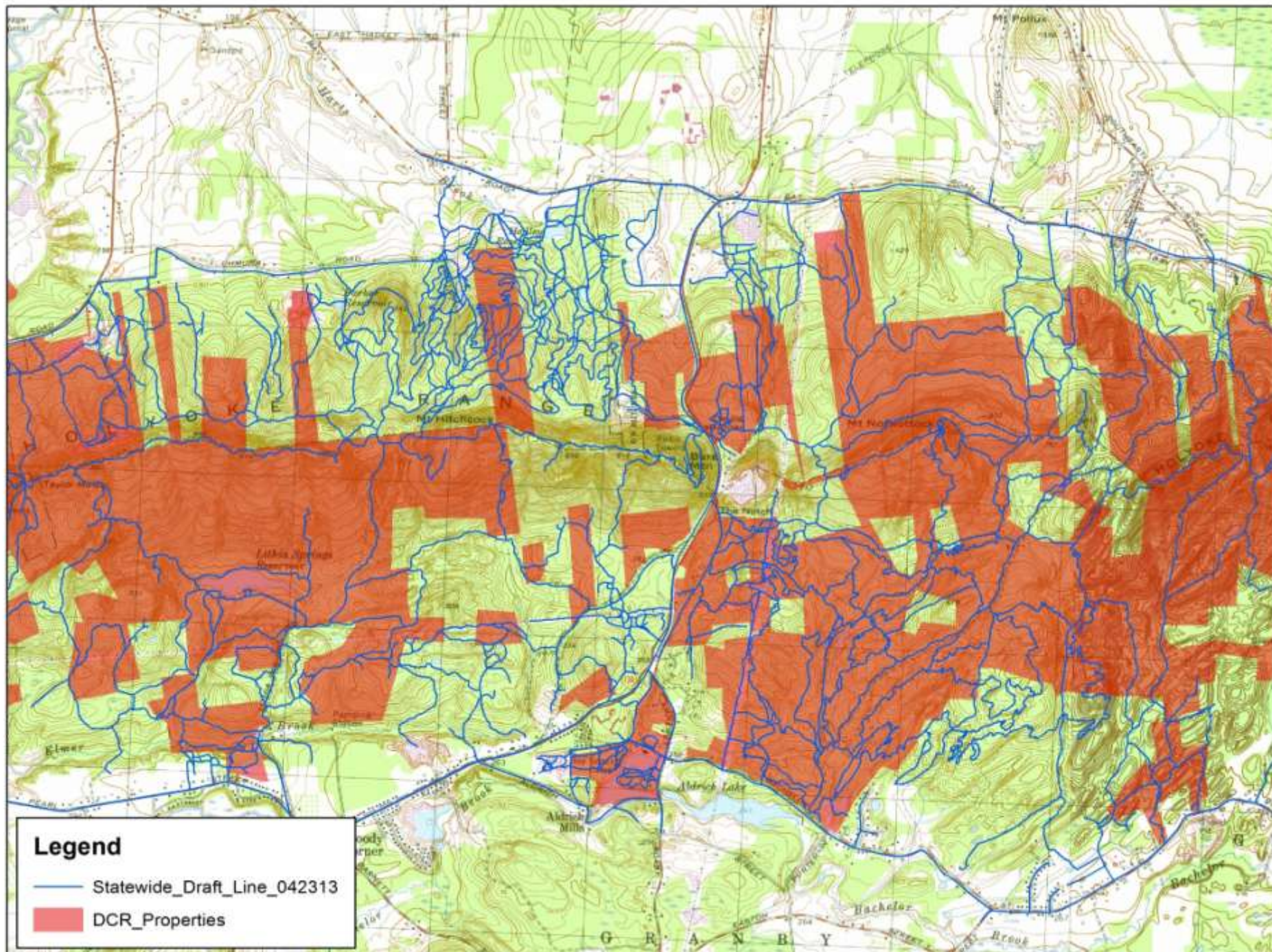


4,335 Miles of Roads and Trail Mapped to Date

Legend

— Statewide_Draft_Line_042313

■ DCR_Properties



Data Distribution Plan

- Through MassGIS (data download and Oliver viewer)
- Update DCR property “green” maps

MassGIS Datalayers - Windows Internet Explorer provided by DCR.DI

http://www.mass.gov/officeofresearchandtechnology/officeofgeographicinformation/massgis/datalayers/layerlist

File Edit View Favorites Tools Help

Google

MassGIS Datalayers

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MassGIS Datalayers

[Image Data](#) | [Census/Demographic Data](#) | [Coastal and Marine Features](#) | [Conservation and Recreation](#) | [Cultural Resources](#) | [Environmental Monitoring](#) | [Indexes](#) | [Infrastructure](#) | [Physical Resources](#) | [Political/Administrative Boundaries](#) | [Regulated Areas](#) | [Miscellaneous](#)

Each digital dataset name below links to a complete datalayer description page which contains metadata and links to free data download. The date below each datalayer title on the individual description pages represents the month and year that the data first appeared in the MassGIS database or the date of the datalayer's most recent update. If additional information is needed, especially at the feature level, review the Maintenance section of the metadata or contact the agency that created the data as listed on the dataset's page.

See the [Data Overview](#) page for data attribution and citation language and the projection and coordinate system of MassGIS data.

[Contact Us](#) to receive Data Update notices via email, or to let us know about an error or submit questions on MassGIS data.

Image Data

Ortho Imagery (Aerial photography)

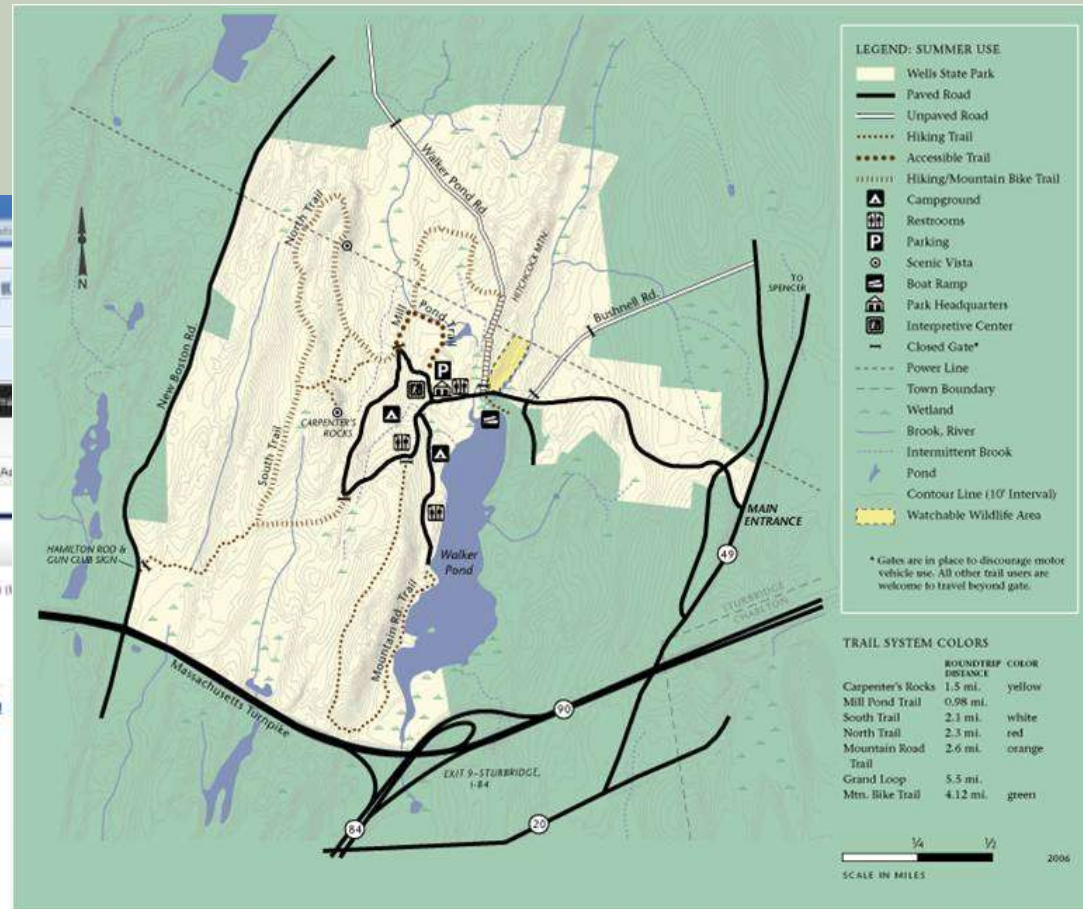
- 1:50,000 Color Ortho Imagery (2008/2009)
- 1:5,000 Color Ortho Imagery (2005)
- 1:4,000 Color Ortho Imagery (2004 - 2007)
- 1:4,000 Black and White Digital Orthophoto Images (2009)
- 1:12,000 Black and White Digital Orthophoto

Municipal GIS

GIS Resources

Standards

Contact MassGIS
(617) 619-5611
paul.mattys@state.ma.us



DCR Trails Test

DCR Trail Map

Through interactive "GIS-lite" maps – prototype of DCR on-line and mobile trail viewer

DCR Trails

Parking Lots

Parking small



DCR Trails by Surface and Width

DCR Trails thin

--- Natural Surface, < 10'

--- Natural Surface, 10' +

— Paved Surface, < 10'

— Paved Surface, 10' +

--- Gravel Surface, < 10'

--- Gravel Surface, 10' +

--- Other Surface, < 10'

--- Other Surface, 10' +

MA Town Boundaries (Survey)

--- Town Boundary

--- Interstate Boundary

DCR OpenSpace Arcs

--- DCR Park Boundary

DCR OpenSpace (Transparent)

■ Other DCR Interests

■ DCR Property

